

Work Order ID 129407

Friday, February 06, 2015 11:14:46 AM

129407

Page 1

Item ID: D4775-1

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Strut Tube

Start Date: 2/6/2015 Start Qty: 30.00

30

Cust Item ID:

Required Date: 2/6/2015 Req'd Qty: 30.00

30

Customer:

Reference:

Approvals: Process Plan: **ML3**

Date: **15-02-06** Tooling:

Date:

Run Start ***NR1***

QC:

Date: SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID Tool # Plan Accept Reject Reject Insp.
Code Qty Qty Number Stamp

Draw Nbr

Revision Nbr

D4775

C

100

0.00

100

DOOSAN LATHE

Doosan

Memo

0.00

Doosan Lathe

1- Turn as per Folio FB166

Rev: **1/14** &

Dwg D4775 Rev: **C**

2- Tap for 3/8-24 Helical insert check with GO/ NO GO gauge

3-Deburr per dwg D4775

30 **Ø** **SL/5-2-20**

110

QC2- Inspect parts off machine FAI/FAIB

0.00

110

QC

Memo

0.00

Quality Control

30 **Ø** **SL/5-2-20**

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐															
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐															
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐															
Large Fab ☐	Composite ☐	Supplier ☐																

Root Cause	Date	Step	Qty	Description of work order update or non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Design									
Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
Supplier									
Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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129407

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N900040100

Setup Start *NS1*

Stop *NS2*

Start Date: 2/6/2015 **Start Qty:** 30.00 ***30***

Cust Item ID:

Required Date: 2/6/2015 **Req'd Qty:** 30.00 ***30***

Customer:

Reference:

Run Start *NR1*

Approvals: _____ **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Stop ***NR2***

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Operation Description

Set Up/ Run Hours

[illegible]

120 QC8- Inspect parts - second check

0.00

120

0.00

QC

Memo

Quality Control

130 Chemical Conversion Coat per QSI005 4.1

0.00

130

0.00

HandFinish

Memo

Hand Finishing

140 QC7-Inspect Chemical Conversion Coat

0.00

140

0.00

QC

Memo

Quality Control

30 ~~10~~

30 ϕ 15-2-23 Dec
Jm

30 15-2-24

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube ☐</td> <td>Crosstube ☐</td> <td>Water Jet ☐</td> <td>Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>	Skid-tube ☐	Crosstube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Doc/Data									
Equip/Tooling									
Handling/Pre									
Material									
Operator									
Offset/Setup									
Process									
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Training									
Transport									
Unapproved									

FAULT CATEGORY

Landing Gear ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Inspection Strip in Tube ☐ Marks/Chatter ☐ Turning Sequence ☐ Wave/Twist in Tube	General ☐ Bend ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Burrs ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Drawing ☐ Drill Holes ☐ Finish ☐ Fit/Function	☐ Folio/Program ☐ Grain ☐ Hardware ☐ Inspection Incomplete/Unqualified ☐ Instructions Incomplete/Unclear ☐ Misaligned/off center ☐ Mislabeled ☐ Misread ☐ Off-set ☐ Out of Calibration ☐ Out of Sequence	☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Positioned Wrong ☐ Power Loss/Surge ☐ Pressure/Forced ☐ Set-up ☐ Temperature/Cure ☐ Weld ☐ Wrong Stock Pulled ☐ Other
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Work Order ID 129407

Friday, February 06, 2015 11:14:47 AM

129407

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Item ID: D4775-1

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Strut Tube

Start Date: 2/6/2015 Start Qty: 30.00

30

Cust Item ID:

Required Date: 2/6/2015 Req'd Qty: 30.00

30

Customer:

Reference:

Run Start

NR1

Approvals:

Process Plan:

Date:

Tooling:

Date:

Stop

NR2

QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

150

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

0.00

150

M 129808

Powdercoat

Memo

0.00

Powder Coating

START TIME:

OVEN TEMPERATURE:

FINISH TIME:

*1:05
320°
1:35*

30 0 15-2-24 233

155

QC3- Inspect Part Finish

0.00

155

QC

Memo

0.00

Quality Control

30

DAS
38
9-89

FEB 24 2015

160

Identify as per dwg & Stock Location:

0.00

160

Packaging

Memo

0.00

Packaging

5294

30

FEB 26 2015

DAS
66
9-89

Work Order ID 129407***129407***

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Friday, February 06, 2015 11:14:47 AM

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Start Date: 2/6/2015 Start Qty: 30.00

30

Cust Item ID:

Required Date: 2/6/2015 Req'd Qty: 30.00

30

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

170

QC21- Final Inspection - Work Order Release

0.00

170

QC

Memo

0.00

Quality Control

MLJ

15-02-26

MF
15-2-26

Picklist Print

Friday, February 06, 2015 11:14:53 AM

Page 1

Work Order ID: 129407

129407

Parent Item: D4775-1

D4775-1

Parent Item Name: Strut Tube

Start Date: 2/6/2015

Required Date: 2/6/2015

Start Qty: 30.00

Required Qty: 30.00

Comments: IPP REV:A 13.02.28 NEW ISSUE DD VERF:JFS IPP REV:B
13.09.26 AS PER REV.B DD VERF:JLM IPP REV:C 14.01.10
AS PER REV.C DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M6061T6T0.625W.125		Purchased	No			100	f	3.0000	1.15	37			

M6061T6T0 625W 125

6061-T6 RD Tube 0.625 X.125W

**

2/15-2-20

Location

Loc Qty

Loc Code

MAT014

3

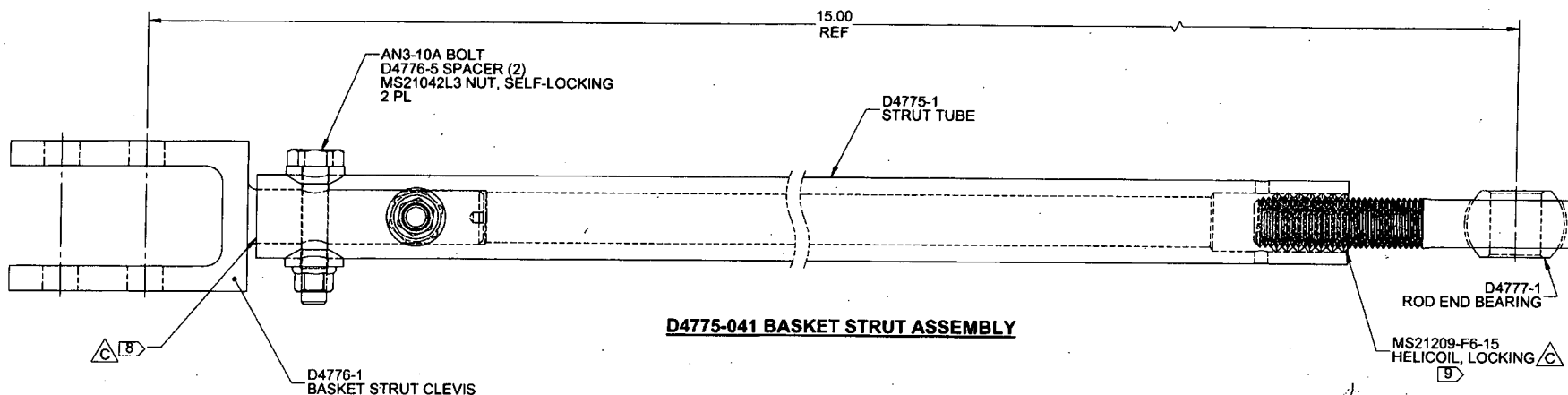
m130884

3

131541

36

ITEM	QTY	P/N	DESCRIPTION
	X	D4775-041	BASKET STRUT ASSEMBLY
1	1	D4775-1	STRUT TUBE
2	1	D4776-1	BASKET STRUT CLEVIS
3	4	D4776-5	SPACER
4	1	D4777-1	ROD END BEARING
5	2	AN3-10A	BOLT
6	2	MS21042L3	NUT, SELF-LOCKING
7	1	MS21209-F6-15	HELICOIL, LOCKING



D4775-041 BASKET STRUT ASSEMBLY

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: PER QSI 044 6.1
- 7) WEIGHT: 0.45 lbs
- 8) APPLY PROSEAL 890 B-2 (PRC) TO THE STEM OF ITEM 2 TO PREVENT RATTLING.
- 9) ENSURE HELICOIL DOES NOT BLOCK HOLE

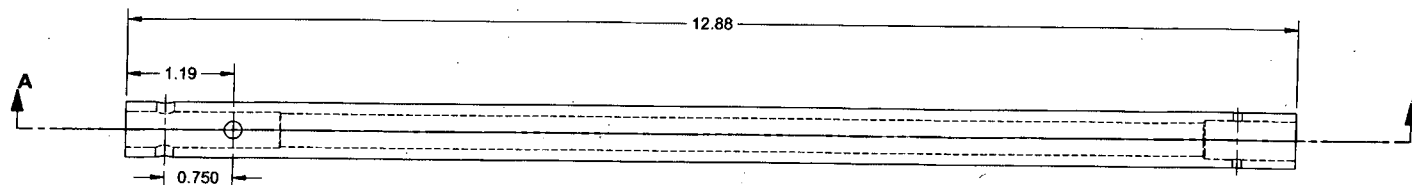
RELEASED
2014-01-07

C	ITEM 7 WAS F6-20, B2-2 Ø0.098 "WITNESS HOLE" ADDED. REASON: CUSTOMER FEEDBACK. ADDED NOTE 8. REASON: DESIGN IMPROVEMENT.	AJS	13.11.01
B	DELETED WELD PINS (-3) REPLACED WITH FASTENERS. REASON: PREVENT CRACKING & EASE OF MANUFACTURE. Ø6-2 HOLE PATTERN ON -1 REVERSED TO ENSURE FASTENERS CLEAR STRUCTURE. FINISH NOTE MOVED TO -1 (SHEET 2).	AJS	13.08.14
A	NEW ISSUE	AJS	13.08.08
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	AJS		
CHECKED	AJS		
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	13.11.01		

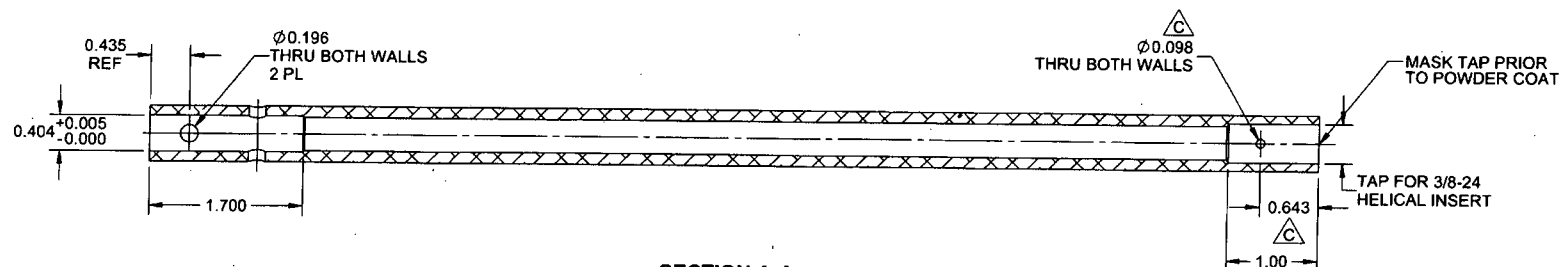
DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D4775** REV. C
SHEET 1 OF 2
TITLE **BASKET STRUT ASSEMBLY** SCALE NTS

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D4775-1 STRUT TUBE



SECTION A-A

RELEASED
2014-01-08
W

NOTES:

- 1) MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING, $\phi 0.625 \times 0.125$ WALL
PER WW-T-700/6 OR QQ-A-200/8 OR QQ-A-225/8
OR AMS 4080 OR AMS 4082 OR AMS 4083
OR ASTM B210 OR ASTM B241
REF DART SPEC M6061T6T0.625W0.125
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
POWDER COAT WHITE (4.3.5.1) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.24 lbs

DESIGN	AJS	DART AEROSPACE LTD	
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED	A.P.	DRAWING NO. D4775	REV. C
MFG. APPR.		TITLE	SHEET 2 OF 2
APPROVED		BASKET STRUT ASSEMBLY	SCALE
DE APPR.			NTS
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